



# SHAHUL HAMEED

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## PROFESSIONAL SUMMARY

Instrumentation & Control Engineer with over 10 + years experience in Industrial Process, Automation, Instrumentation, Engineering, Panel testing and commissioning. Proficient in all stages of project development, engineering, implementation & commissioning of various control systems for safe operation. Strong background knowledge in PLC, SCADA software design, development and integration.

## SKILLS

- PLC
- Instrumentation
- Commissioning.
- Flow computers
- Scada
- Project management
- Engineering
- Service
- Networking

## EXPERIENCE

E & I Engineer

March 2016 - Current

Proserv | Chennai, India

- Review of P & I Drawings.
- Preparation / Review of various Field Instruments Data Sheets (PG, LG, PT, LT, FT).
- Preparation / Review of Cable Engineering documents.
- Preparation / Review Instruments List, Alarm & Trip Schedule, IO list, Control narrative and cause & Effect drawing.
- Preparation / Review Control logic and Block Interlocking Diagrams.
- Preparation / Review Control System Configuration (PLC / DCS / RTU) and Bill of materials.
- Review of Control System vendor documents (Wiring drawing / Calculation / Logic).
- Preparation / Review of Electrical Data Sheets (Motor, Electric Heater, LCP, LCS, Cables & Trays).
- Preparation / Review JB interconnection drawing and Local control panel Logic & drawing Preparation.
- Preparation of Electrical Load List.
- Vendor drawing review for all Electrical equipment s (Motor, Electric Heater, LCP and LCS).
- Overall E&I Hardware Estimation for procurement (Cable, Cable Tray, Cable Glands, junction box, PDB & Etc.).
- Preparation / review of purchase requisitions for instrumentation and electrical equipments / components.
- Technical BID Evaluation and Vendor technical offer review / Comments for various Field Instruments
- Technical BID Evaluation and Vendor technical offer review / Comments for various Electrical components
- Technical BID Evaluation and Vendor technical offer review / Comments for DCS / PLC / RTU.
- Inter-Team coordination with various disciplines (Project/package/Procurement/Design / Production).

- E&I Technical support to proposal Team for Pre-Order engineering.
- Preparation of Weekly / Monthly reports of project status.

Plant Engineer

January 2015 - February 2016

Tech Blocks LLC | Ajman | Ajman, Ajman, UAE

- Planning preventive & corrective maintenance plan for the plant.
- Planning & scheduling production activities.
- Resource handling.
- Inventory maintenance.
- Trouble shoots for plant shutdown problems.
- Developed a streamlined training system for new operators and technician to run the plant effectively.
- Preparing daily, weekly & monthly reports.

Systems Engineer

June 2013 - May 2014

Alderley | Dammam, Eastern Province

- Preparation Functional Design Specification, Operation & Maintenance Manual, IO LIST, Acceptance Test Manual, Alarm Cause & Effect & other company related document for the projects.
- Flow Computer Omni 6000 configuration.
- PLC Hardware selection and configuration.
- PLC program modification in site during commissioning & service.
- Developed an integrated simulation panel for the complete metering skids in order to do the testing through a common platform.
- Conducting Pre FAT & leading team in FAT during testing and commissioning.
- Developed the complete wiring drawing for the PLC & electrical systems.
- Testing and commissioning of AUMA - Flow control valves, ROTARY- MOV's, PT & LT's.
- PID tuning for Control valves for smooth operation.
- Configured communication protocols like Modbus, RS232 and Ethernet.

Field Service Engineer

February 2011 - May 2013

GE Energy | Chennai, Tamil Nadu, India

- Designing, developing, testing, troubleshooting & debugging of the control system applications.
- Manage smooth implementation & testing of the system at client location.
- Preparation of control system design specifications, operation & maintenance manuals & test plans.
- Providing post-implementation, enhancement & maintenance support to client.
- Leading the team in inspection, testing, fat, commissioning & production support for all automation activities in metal industries.
- Establishing communication platform in plant as per the project architecture.
- Developing & modifying PLC programs in process plant as per client request.
- Configuration & monitoring of critical process data's in IBA systems for the process improvements.
- Configured communication protocols like Modbus, Profibus, Ethernet, Ethercat.

Instrumentation Supervisor

February 2010 - January 2011

EMCO-QATAR | Doha

- Planning preventative and corrective actions for all the instruments.
- Resource handling.
- Material Planning.
- Troubleshoot for critical problems and guide team for all technical queries.
- Preparing daily, weekly & monthly reports.

Electrical Control Engineer

August 2008 - January 2010

Electro Concepts Electrical Fitting Works LLC | Dubai

- Preparation of Functional Design Specification, IO LIST, Operation & Maintenance manuals for all control systems application for the project.
- Developing and modifying the PLC programs for the application.
- Developing and modifying configuration screen through SCADA platforms.
- Designing the PLC control panels & testing the system for smooth operation.
- Configuration of communication protocols like Ethernet, Control net

## EDUCATION

Bachelor of engineering (Instrumentation & Control Engineer)

April 2007

Anna University, Chennai, Tamil Nadu, India

## CERTIFICATION

- Certified and trained on CS3000 DCS from Yokogawa India Limited, India.

**REFER ATTACHMENT 1** – For overall project executed summary.

## Attachment – 1: Overall Executed Project Summary

### PROJECTS EXECUTED IN THE ROLE AS AN E & I Engineer:

#### **Project #1 : SFNY 4 DECKS, SUBSEA PIPELINES & CABLES AND STP-17 69 KV CIRCUIT BREAKER PROJECT**

Panel : Well Head Control Panel – (10 Slots X 4 panels)  
Client : L&T

End User : Saudi Aramco

Responsibilities :

Developed electrical and instrumentation engineering design package for the complete skid, which includes activities like selection of instruments, Cables, Local Control Panels, Junction Box based on the Hazardous area classification of the project requirements(IECEX) & prepared all engineering documents as per the **Saudi Aramco Standards** .

#### **Project #2 : 25x WSD Replacement systems**

Panel : Well Head Control Panel – Different types (10, 7, 4 slots X 25 panels)  
Client : Dynamic Industries Saudi Arabia

End User : Saudi Aramco

Responsibilities :

Developed electrical and instrumentation engineering design package for the complete skid, which includes activities like selection of instruments, Cables, Local Control Panels, Junction Box based on the Hazardous area classification of the project requirements(IECEX) & prepared all engineering documents as per the **Saudi Aramco Standards** .

#### **Project #3 : Supply of HESD systems for Zuluf offshore fields**

Panel : Well Head Control Panel – Different types (10, 7, 4 slots X 29 panels)

Client & End User : Saudi Aramco

Responsibilities :

Developed electrical and instrumentation engineering design package for the complete skid, which includes activities like selection of instruments, Cables, Local Control Panels, Junction Box based on the Hazardous area classification of the project requirements(IECEX) & prepared all engineering documents as per the **Saudi Aramco Standards** .

#### **Project #4 : RABAB HARWEEL INTERGRATED PROJECT (On Plot & Off Plot)**

SKID : Corrosion Inhibitor Injection Skid for Off Plot & On Plot.

Client : PETROFAC

End User : Petroleum Development Oman (PDO)

Responsibilities :

Developed electrical and instrumentation engineering design package for the complete skid, which includes activities like selection of instruments, Cables, Local Control Panels, Junction Box based on the Hazardous area classification of the project requirements(ATEX) & prepared all engineering documents as per the **PDO standard & FAT**.

**Project #5 : KHURAI WELL MANIFOLDS & PIPELINES (12 X CIS SKIDS)**

Skid : Corrosion Inhibitor Injection Skid

End user : Saudi ARAMCO

Responsibilities :

Developed electrical and instrumentation engineering design package for the complete skid, which includes activities like selection of instruments, Cables, Local Control Panels, Junction Box based on the Hazardous area classification of the project requirements(IECEX) & prepared all engineering documents as per the **SAUDI ARAMCO** standard's.

**Project #6 : Solar Powered Corrosion Inhibitor Injection Skid for Skid Beds**

Skid : Corrosion Inhibitor Injection Skid

Client : BAPTECO

PLC : Micro 850 AB

HMI : Panel View 800 AB

Pump Controller : iCIP GE Controller (to regulate the pump speed)

Responsibilities :

Developed electrical and instrumentation engineering design package for the complete skid, which Includes activities like selection of instruments, Cables, Local Control Panels, Junction Box, cable glands based on the Hazardous area classification of the project requirements (Atex) & prepared all engineering documents as per the **BAPTECO** standards. Configured the iCIP controller for the pump sequence. Panel Testing & FAT.

**PROJECTS EXECUTED IN THE ROLE AS AN SYSTEMS ENGINEER:****Project #1 : Kerosene Metering Skid System for Bulk Plant North Jeddah.**

SKID : 3 Meter Run Skid with Bi directional prover

Client : Saudi ARAMCO

Description : Valve Control from PLC

Flow Computer : Omni 6000 for metering calculations

PLC : Allen Bradley Control Logix

Network : Ethernet

SCADA : Citect

Responsibilities : Panel Design, Technical Documentation, Drawing preparations, Panel testing, Program development for valve shutdown, Omni configurations and FAT.

**Project #2 : Crude Metering Skid System for KRTJB-1/KRTJB-2 Pipelines.**

Skid : 4 Meter Run Skid with Bi directional prover

Client : Saudi ARAMCO

Description : Valve Control from the PLC

Flow Computer : Omni 6000 for metering calculations

PLC : Allen Bradley Control Logix

Network : Ethernet

SCADA : Citect

Responsibilities : Panel Design, Technical Documentation, Drawing preparations, Panel testing, Program development for valve shutdown, Omni configurations and FAT.

## PROJECTS EXECUTED IN THE ROLE AS AN FIELD SERVICE / CONTROL ENGINEER:

### **Project #1 : Hindalco Bluefox Cold Rolling Mill (Green Field Project)**

Client : Hindalco, Sambalpur, Orissa  
PLC : GE HPCI Controllers  
RIO : Wago, Beckhoff  
Network : Ethernet TCP/IP, EGD, EtherCAT, OPC interface.  
SCADA : Proficy IFix (V5.1)  
Responsibilities : Panel Design, Pre commissioning, communication establishment, Program development for changes in site & modification of interlocks, Commissioning and Operation support

### **Project #2 : Cold Rolling Mill (CRM) (Up gradation Project)**

Client : Egyptian Copper Works, Alexandria, Egypt.  
PLC : HPCI (High Performance Controller)  
RIO : Wago Modules  
Network : Ethernet TCP/IP, EGD, Modbus  
SCADA : Proficy IFix (V5.1)  
Responsibilities : Panel Design, Pre commissioning, initial process checks, communication establishment, Program development for changes in site & modification of interlocks and commissioning

### **Project #3 : Cold Rolling Mill (CRM-2) (Refurbishment Project)**

Client : Tinplate Company of India Ltd (TCIL), Jamshedpur  
PLC : HPCI (High Performance Controller)  
RIO : GE Fanu Versamax  
Network : Ethernet TCP/IP, EGD, Modbus.  
SCADA : Proficy IFix (V5.1)  
Responsibilities : Pre commissioning, communication establishment, Program development for changes in site & modification of interlocks and Commissioning.

### **Project #4 : AL –HAMRA POWER PROJECT, RAS AL KHAIMAH, U.A.E.**

Description : Auto Change over scheme for Generator Synchronizing panel  
PLC : Schneider Electric M340, Unity Pro S.  
Responsibilities : Panel Design, Programming Development for auto change over, Panel Testing & FAT.